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(54) Title: A WIRELESS MOBILE PHONE WITH AUTHENTICATED MODE OF OPERATION INCLUDING HEART BEAT PROFILE BASED AUTHENTICATION

(57) Abstract: A wireless mobile phone (100) is equipped to operate in an unauthenticated and an authenticated mode of operation, depending on whether a user has been authenticated. In one embodiment, the wireless mobile phone includes a number of sensors (132) to enable a user's heart beat profile to be captured and be used for authentication. In one embodiment, authentication is performed by comparing the real time captured heart beat profile against a reference heart beat profile. In one embodiment, the reference heart profile is retrieved from an identity card. The wireless mobile phone further includes a reader to retrieve the reference heart beat profile from the identity card.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/10051

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : HO4M 1/66
US CL : 455/410,411; 709/229

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 455/410,411; 709/229

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
None

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category.*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,311,218 B1 (Jain et al.) 30 October 2001 (30.10.2001), column 2, lines 9-15 and column 4, line 48 to column 5, line 60.	1-17
A	KR 2002029054A (Kim et al.) 17 April 2002 (17.04.2002), abstract	1-17

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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